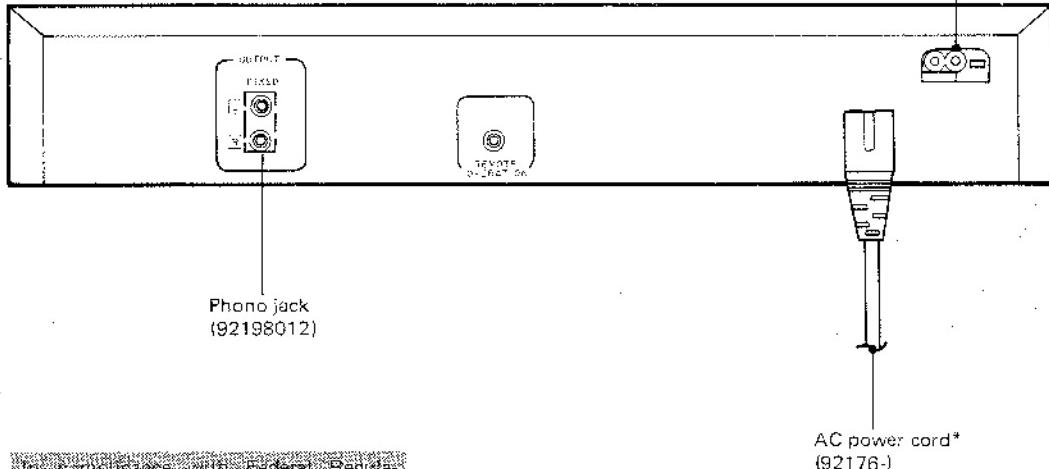
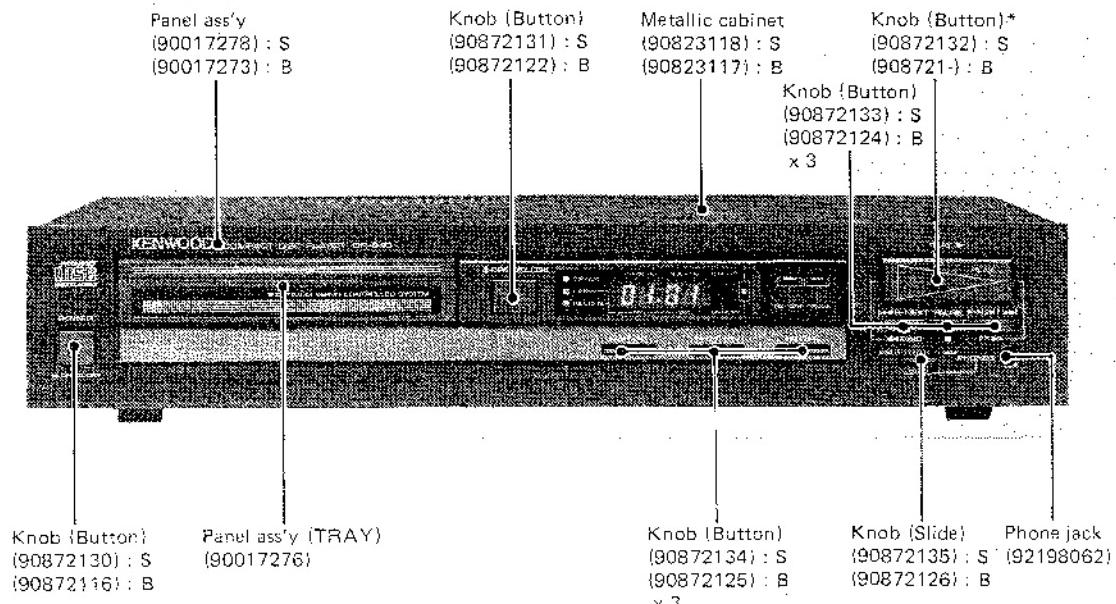


SERVICE MANUAL

KENWOOD

DP-840

COMPACT DISK PLAYER



In compliance with Federal Radiotelecommunications, following are reproductions of labels on or inside the product relating to laser product safety.

TRIO KENWOOD Corp. certifies this equipment conforms to DHHS Regulations (45 CFR 1040.10, Chapter 1, Subchapter J).

DANGER : Laser radiation when open and interlock defeated.

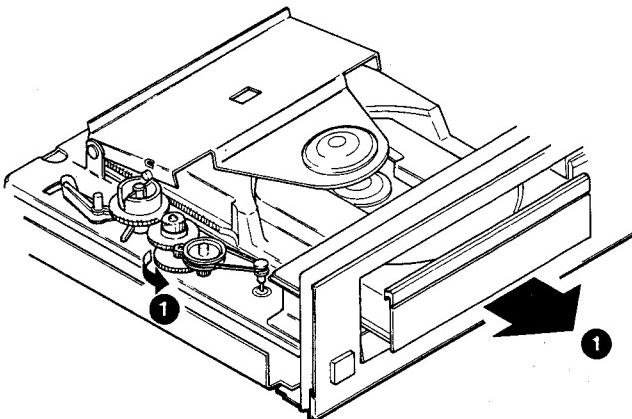
AVOID DIRECT EXPOSURE TO BEAM

* Refer to parts list on page 8.
 Photo is DP-840 (Black version).
 S : Silver version.
 B : Black version

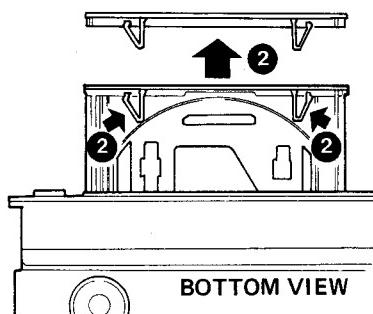
DISASSEMBLY FOR REPAIR

DISASSEMBLY FOR REPAIR

1. Remove the metallic cabinet.
2. Turn the gear, by hand, towards arrow until the tray go out the unit (1).

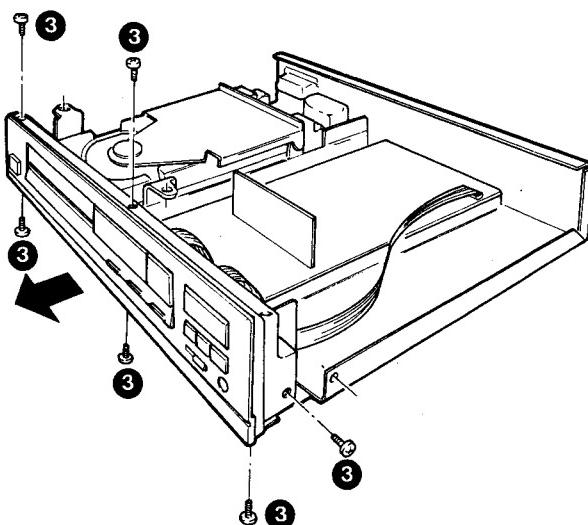
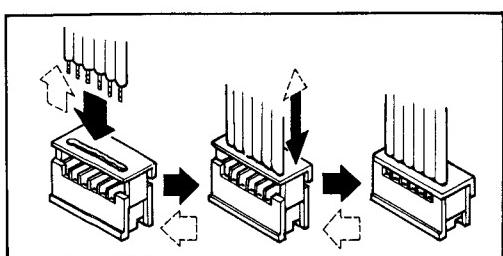


3. As pushing the projection of the tray panel from the bottom side, remove the tray panel frontwards (2).



4. Remove the 6 screws from the front panel (3).

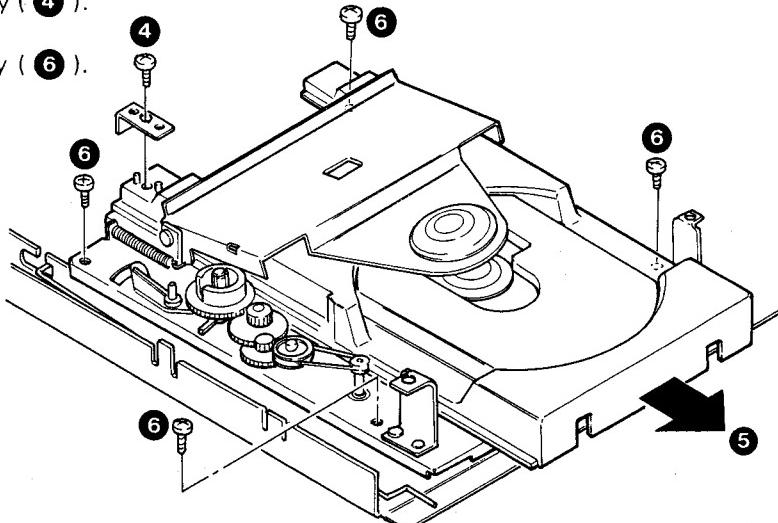
NOTE : When pulling out the flat cable from the connector upwards.



5. Remove the screw from the stopper for the tray (4).

6. Pull out the tray frontwards (5).

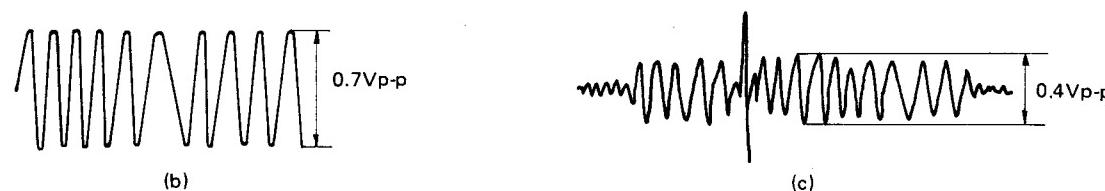
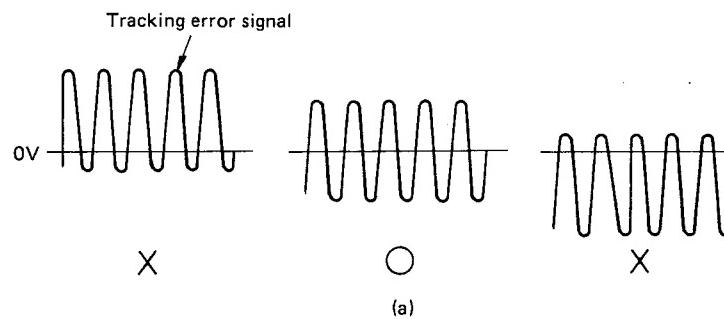
7. Remove the 4 screws from the mechanism ass'y (6).



ADJUSTMENT

Don't turn the trimming pots except R112.

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1							
2	LASER POWER		Laser power meter	POWER : ON	R112	Adjust R112 so that the meter reads 270μW.	
3							
4							
5	FOCUS BALANCE	Test disc	Connect the oscilloscope (AC coupled, 0.2V/d, 0.5 μs/d) to TP9 and TP16 (GND)	PLAYBACK (TRACK No. 30)	R124	Adjust R124 so that maximum output.	
6	LASER POWER	Test disc	Same as above.	Same as above.	R112	Adjust R112 so that the amplitude of RF waveform is 1Vp-p.	
7	TRACKING ERROR OFFSET	Test disc	-	PLAYBACK (TRACK No. 30)	-	-	
8							
9	TRACKING ERROR OFFSET	Test disc	Connect the oscilloscope to TP6 and TP5 (GND)	PLAYBACK	R726	Adjust R726 so that the waveform is the center of the oscilloscope.	(a)
10							
11	TRACKING	Test disc	Connect the oscilloscope to TP6 and TP5 (GND)	PLAYBACK	R727	Adjust R727 so that the amplitude is 0.7Vp-p.	(b)
12	FOCUS	Test disc	Connect the oscilloscope to TP2.	PLAYBACK	R705	Adjust R705 so that the amplitude is 0.4Vp-p.	(c)
13							
14	OUTPUT OFFSET	-	Connect the DC voltmeter to TP13 (L ch) and TP12 (R ch)	POWER : ON	R507 (L ch) R508 (R ch)	Adjust R507, 508 so that meter reads 0V.	



REGLAGE

Ne pas tourner les trimmers, à l'exception de R112.

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
1							
2	PUISANCE DE LASER		Mètre de puissance de laser	INTERRUPTEUR SECTEUR : FERME	R112 (carte de circuits imprimés de mécanisme)	Ajuster R112 pour que le mètre indique 270μW.	
3							
4							
5	EQUILIBRE FOCUS	Disque d'essai	Raccorder l'oscilloscope (à couplage c.a., 0.2V/d, 0.5μs/d) avec les bornes TP9 et TP16 (mise à la terre)	REPRODUCTION (piste no. 30)		Ajuster R124 de sorte à obtenir la sortie maximum.	
6	PUISANCE DE LASER	Disque d'essai	Comme ci-dessus	Comme ci-dessus	R112	Ajuster R112 pour l'amplitude de la forme d'onde de RF soit de 1Vp-p.	
7	DECALAGE D'ERREUR DE PISTE	Disque d'essai	-	REPRODUCTION (piste no. 30)			
8							
9	DECALAGE D'ERREUR DE PISTE	Disque d'essai	Raccorder l'oscilloscope avec les bornes TP6 et TP5 (mise à la terre)	REPRODUCTION	R726	Ajuster R726 pour la forme d'onde se trouve au centre de l'oscilloscope.	(a)
10	Maintenir les connexions et l'opération comme décrit ci-dessus.						
11	RECHERCHE DE PISTE	Disque d'essai	Raccorder l'oscilloscope avec les bornes TP6 et TP5 (mise à la terre)	REPRODUCTION	R727	Ajuster R727 pour que l'amplitude soit de 0.7Vp-p.	(b)
12	FOCUS	Disque d'essai	Raccorder l'oscilloscope avec les bornes TP2.	REPRODUCTION	R705	Ajuster R705 pour que l'amplitude soit de 0.4Vp-p.	(c)
13							
14	DECALAGE DE SORTIE	-	Raccorder le voltmètre c.c. avec les bornes TP13 (canal gauche) et TP12 (canal droit).	INTERRUPTEUR SECTEUR : FERME	R507 (canal gauche) R508 (canal droit)	Ajuster R507, 508 pour que le voltmètre indique 0V.	

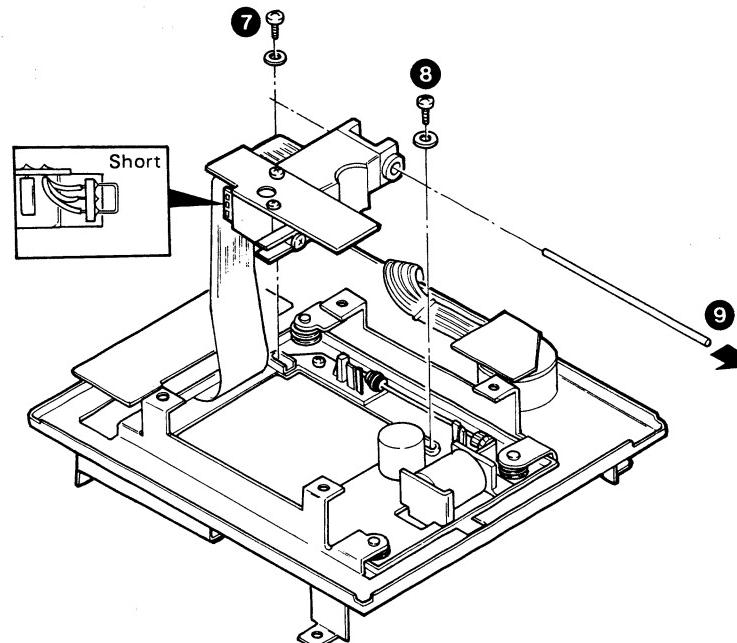
DISASSEMBLY FOR REPAIR

BLOCK DIAGRAM

8. Remove the screw (7) and loose the screw (8).

Next pull out the shaft for the lazer pick-up (9).

NOTE : Short the red and the black leads of the lazer pick-up. (Important procedure)

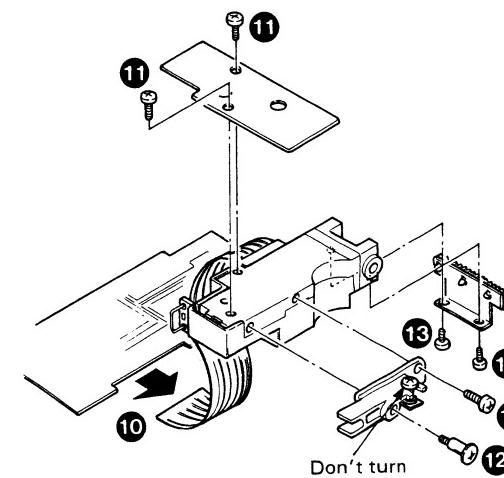


9. Remove the flexible wire from the connector (10).

10. Remove the 2 screws from the pc board (11).

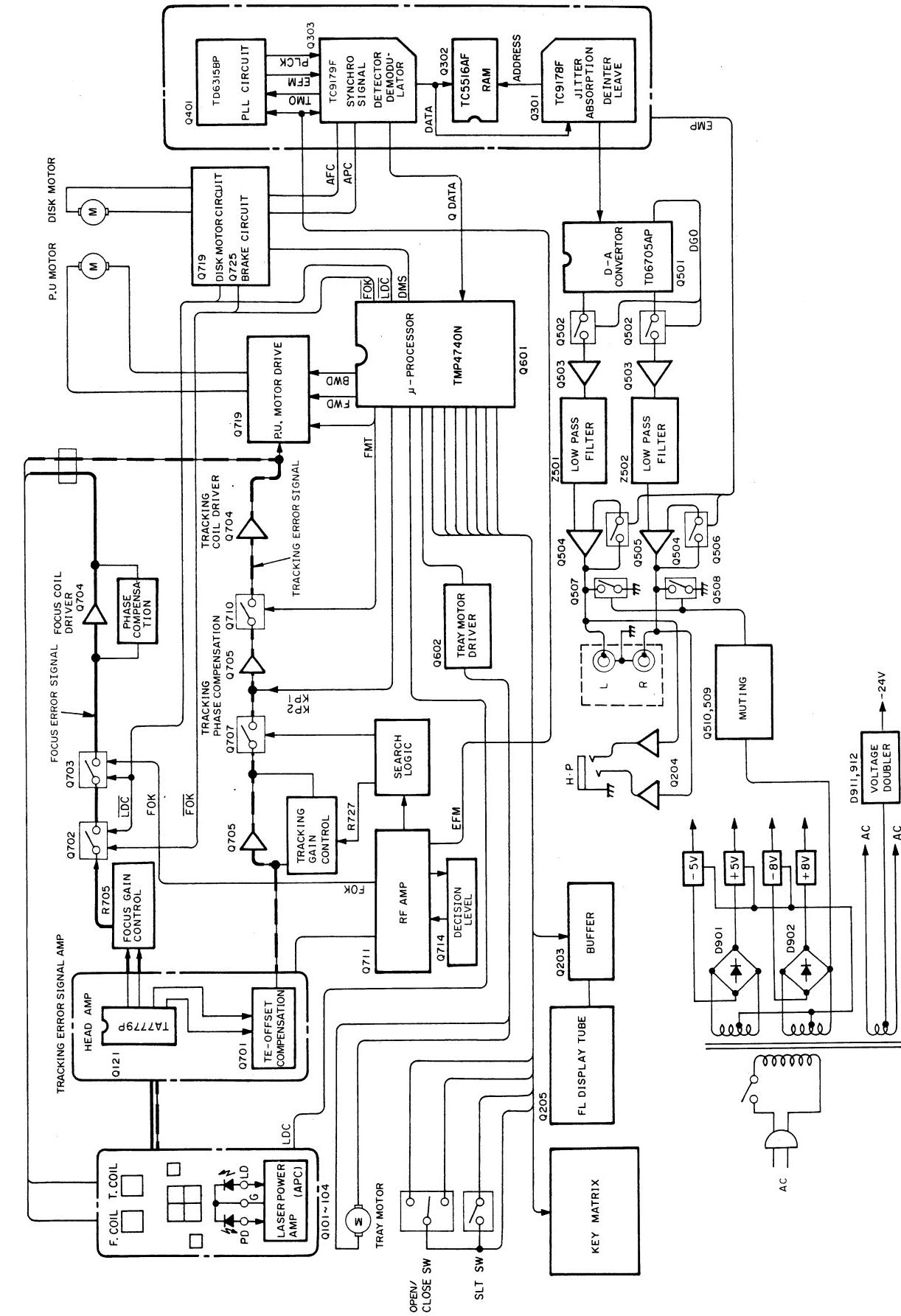
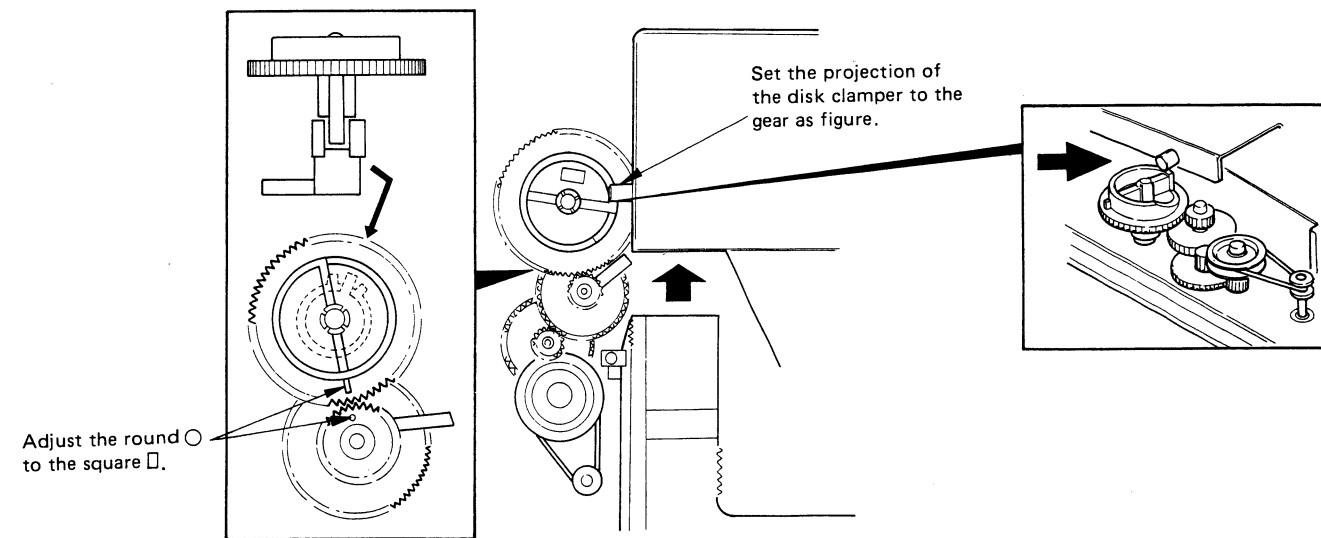
11. Remove the 2 screws from the guide (12). Don't turn the screw on the guide.

12. Remove the 2 screws from the gear (13).



HOW TO SET GEARS' TIMING

Set the projection of the disk clamer to the gear as the figure.

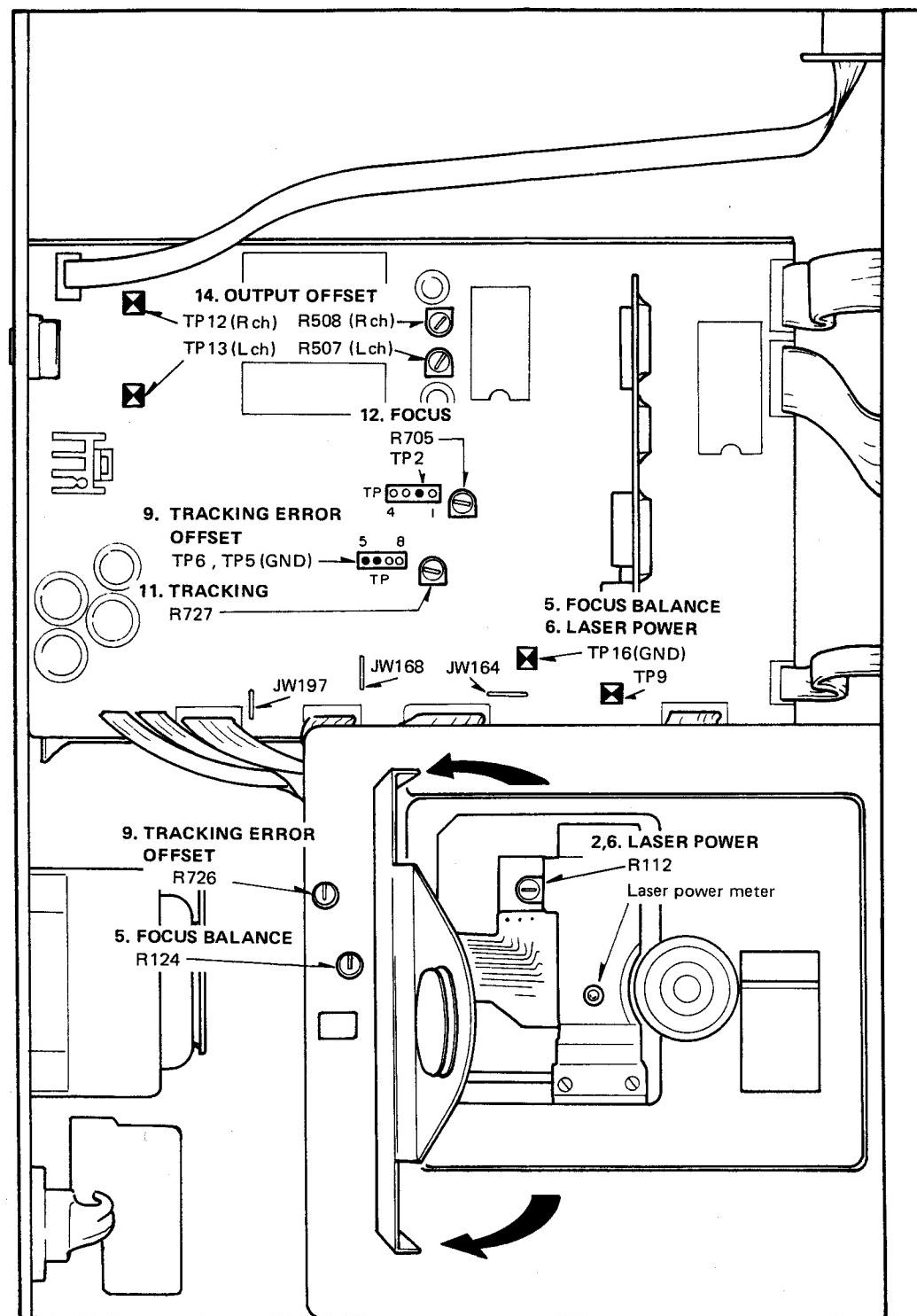


ABGLEICH

ADJUSTMENT/REGLAGE/ABGLEICH

Mit Ausnahme von R112, sollten die Trimmer nicht gedreht werden.

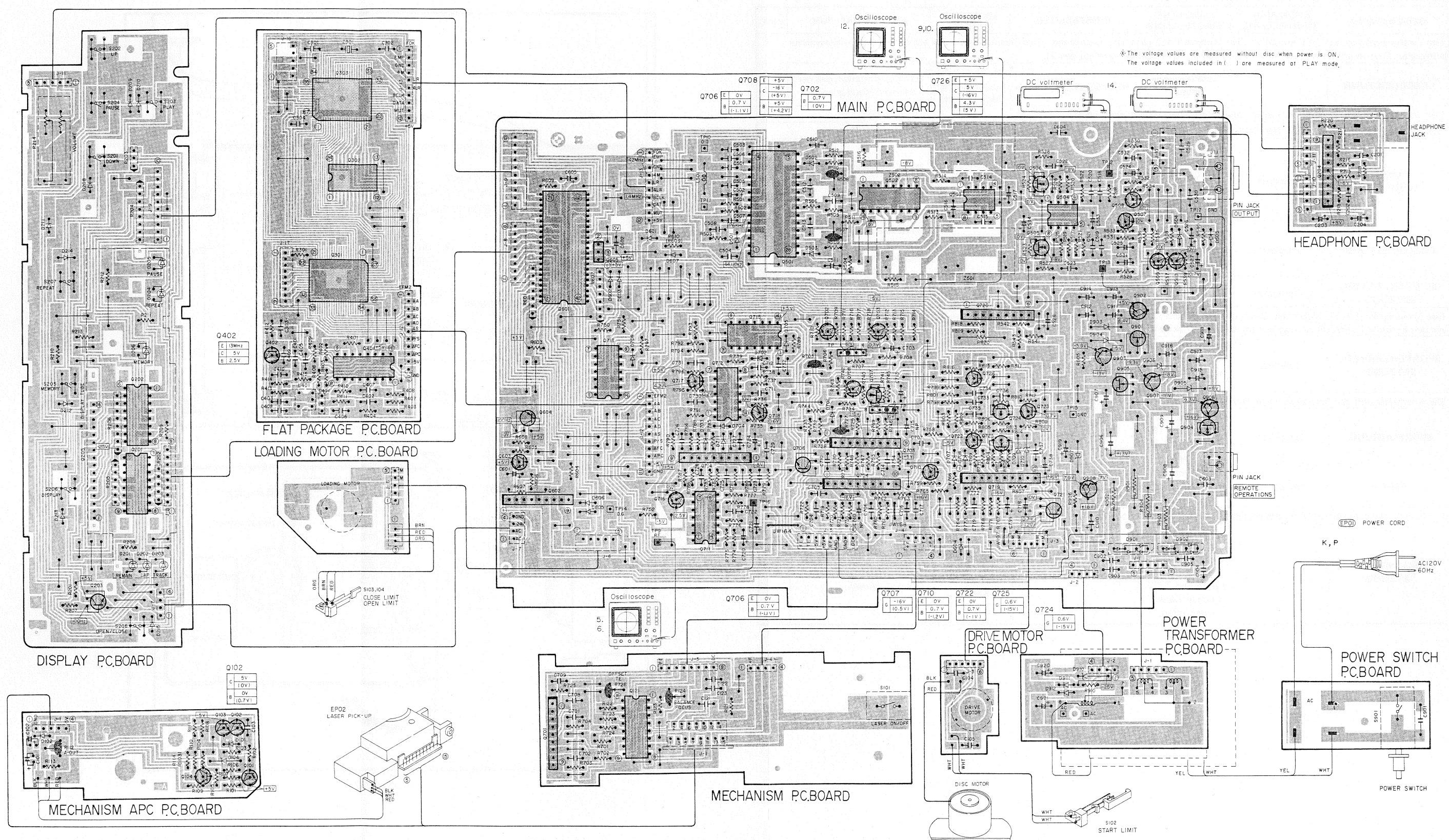
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
1							
1							
2	LASERLEISTUNG		Laserleistungsmesser	NETZSCHALTER : EIN	R112 (Schaltungsplatte für Mechanismus)	R112 so einstellen, daß der Messer 270μW anzeigt.	
3							
4							
5	FOKUS AUSGLEICH	Testplatte	Den Oszilloskop (WS-gekoppelt, 0,2 V/d, 0,5μs/d) an die Klemmen TP9 und TP16 (Erdung) anschließen	WIEDERGABE (spur Nr. 30)	R124	R124 so einstellen, daß die maximale Ausgangsleistung erreicht wird	
6	LASERLEISTUNG	Testplatte	Wie oben	Wie oben	R112	R112 so einstellen, daß die Amplitude der Hochfrequenz-Wellenform 1Vp-p entspricht	
7	SPURFEHLERVERSETZUNG	Testplatte	-	WIEDERGABE (spur Nr. 30)	-	-	
8							
9	SPURFEHLERVERSETZUNG	Testplatte	Den Oszilloskop an die Klemmen TP6 und TP5 (Erdung) anschließen.	WIEDERGABE	R726	R726 so einstellen, daß die Wellenform sich in der Mitte des Oszilloskopgrafen befindet.	(a)
10							
11	SPURFUHRUNG	Testplatte	Den Oszilloskop an die Klemmen TP6 und TP5 (Erdung) anschließen.	WIEDERGABE	R727	R727 so einstellen, daß die Amplitude gleich 0,7Vp-p ist.	(b)
12	FOKUS	Testplatte	Den Oszilloskop an die Klemmen TP2 anschließen.	WIEDERGABE	R705	R705 so einstellen, daß die Amplitude gleich 0,4Vp-p ist.	(c)
13							
14	AUSGANGSVERSETZUNG	-	Den Gleichstrom-Spannungsmesser an die Klemmen TP13 (linker Kanal) und TP12 (rechter Kanal) anschließen.	NETZSCHALTER : EIN	R507 (linker Kanal) R508 (rechter Kanal)	R507, 508 so einstellen, daß der Spannungsmesser OV anzeigt.	



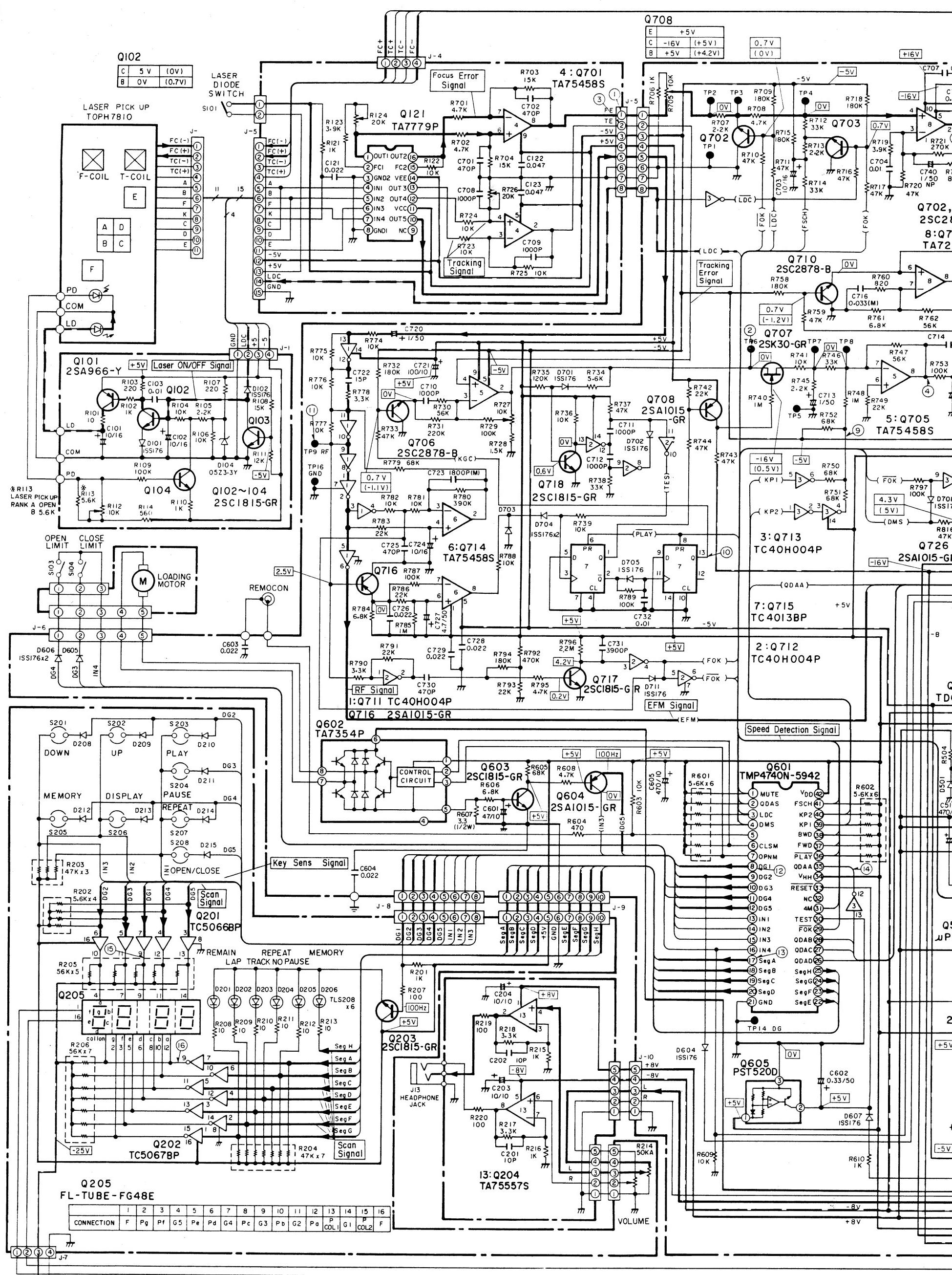
(Top view)

DP-840 DP-840

PC BOARD



Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

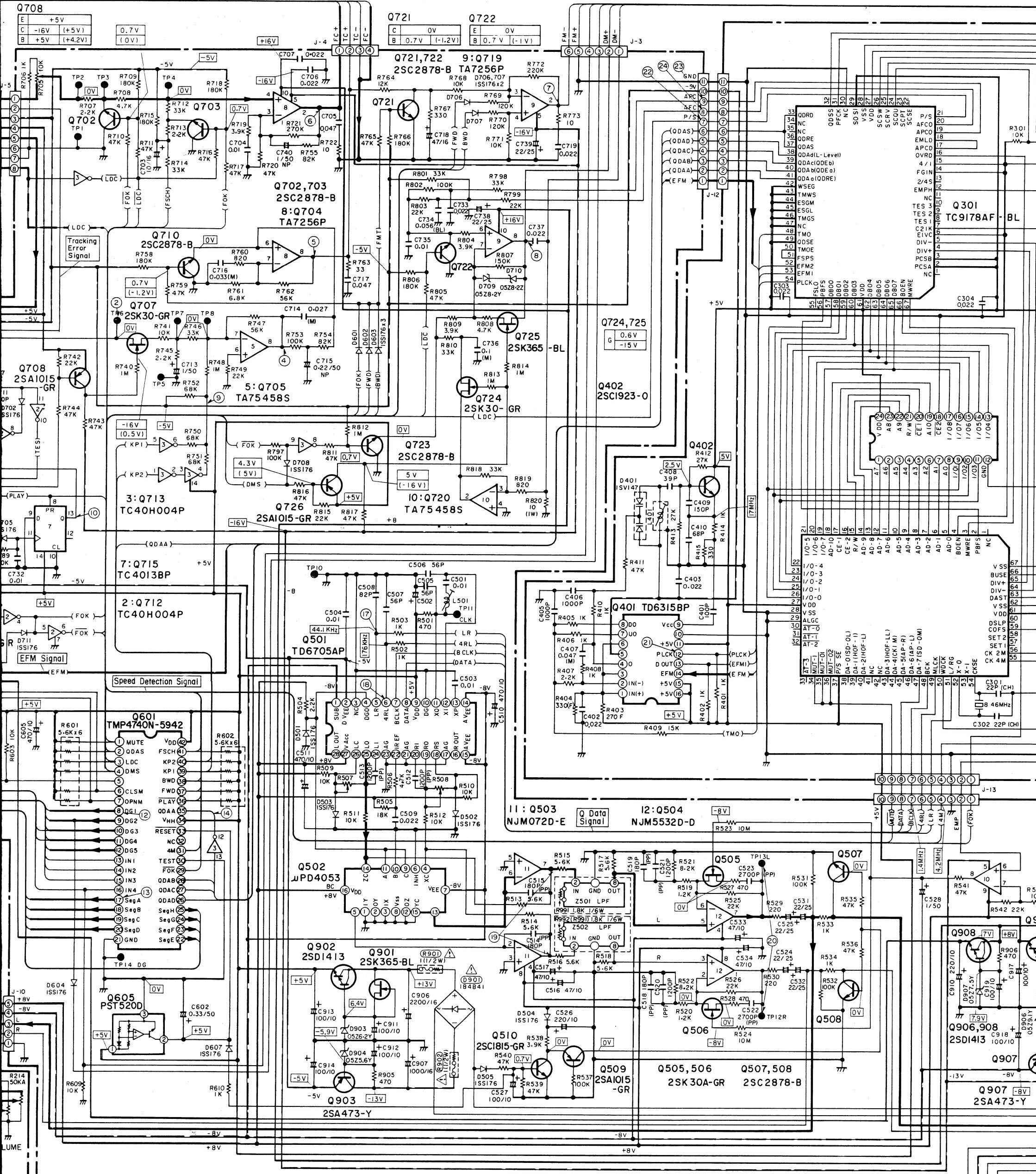


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

• Les tens
mètre à
légère
appareils



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

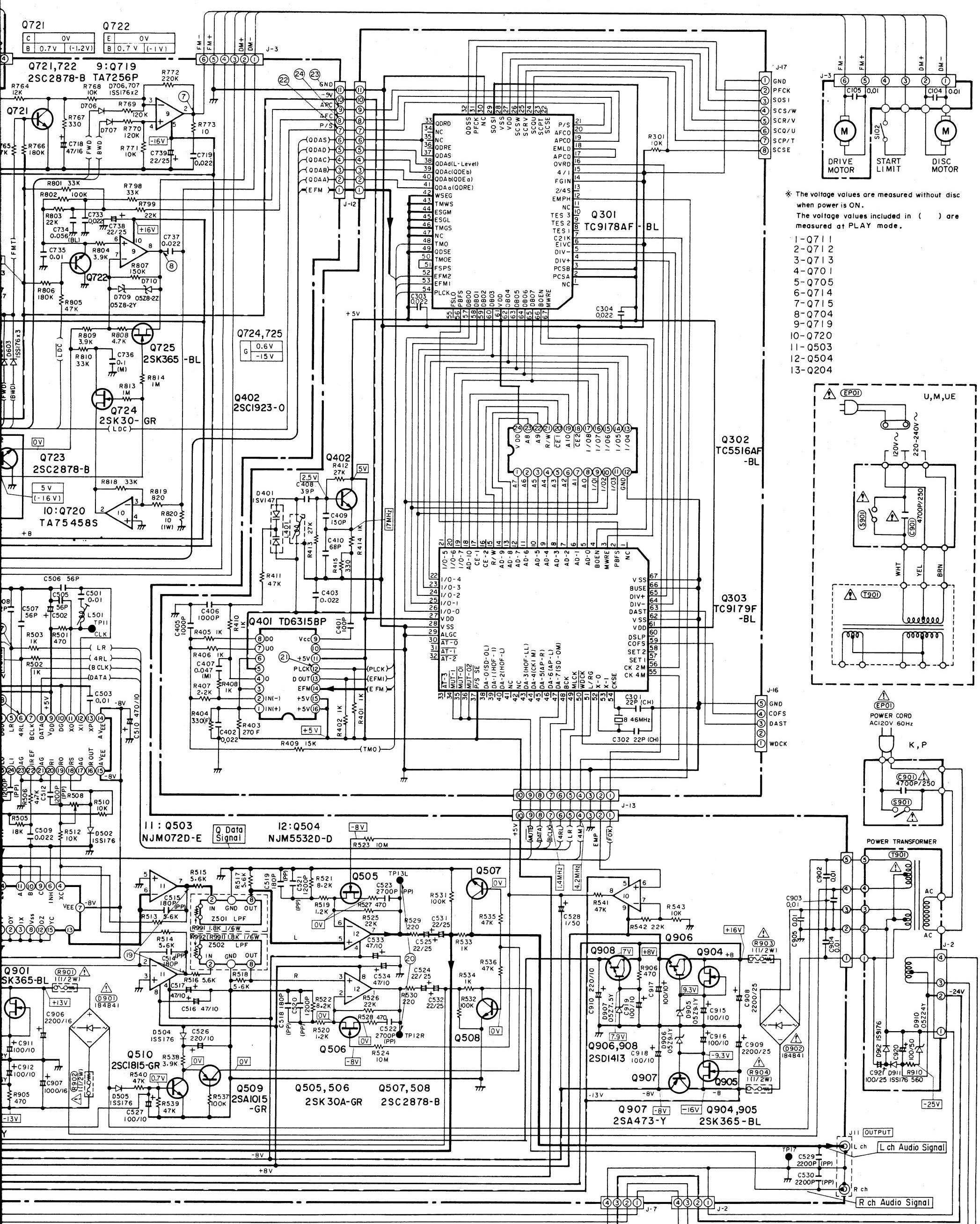
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Messwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

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DIV-
DAST
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DSLP
COFS
SET2
SET
CK 2M
CK 4M

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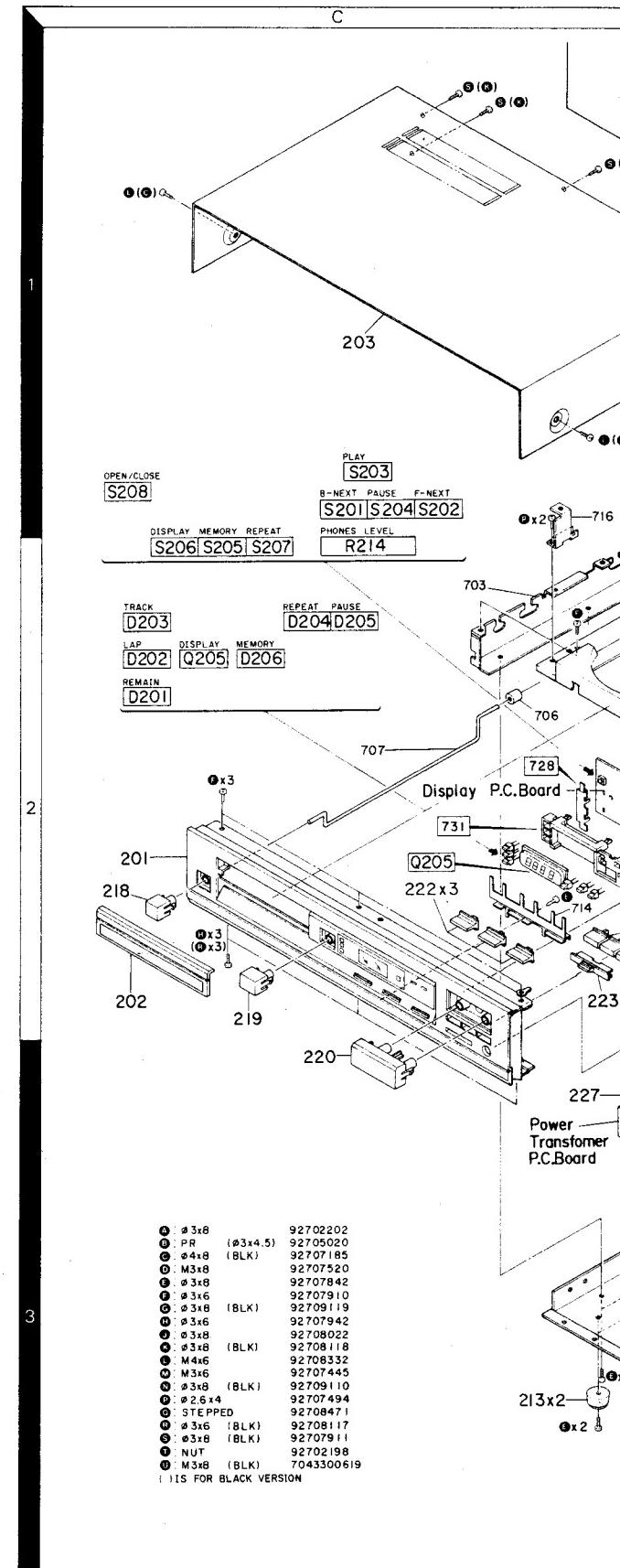
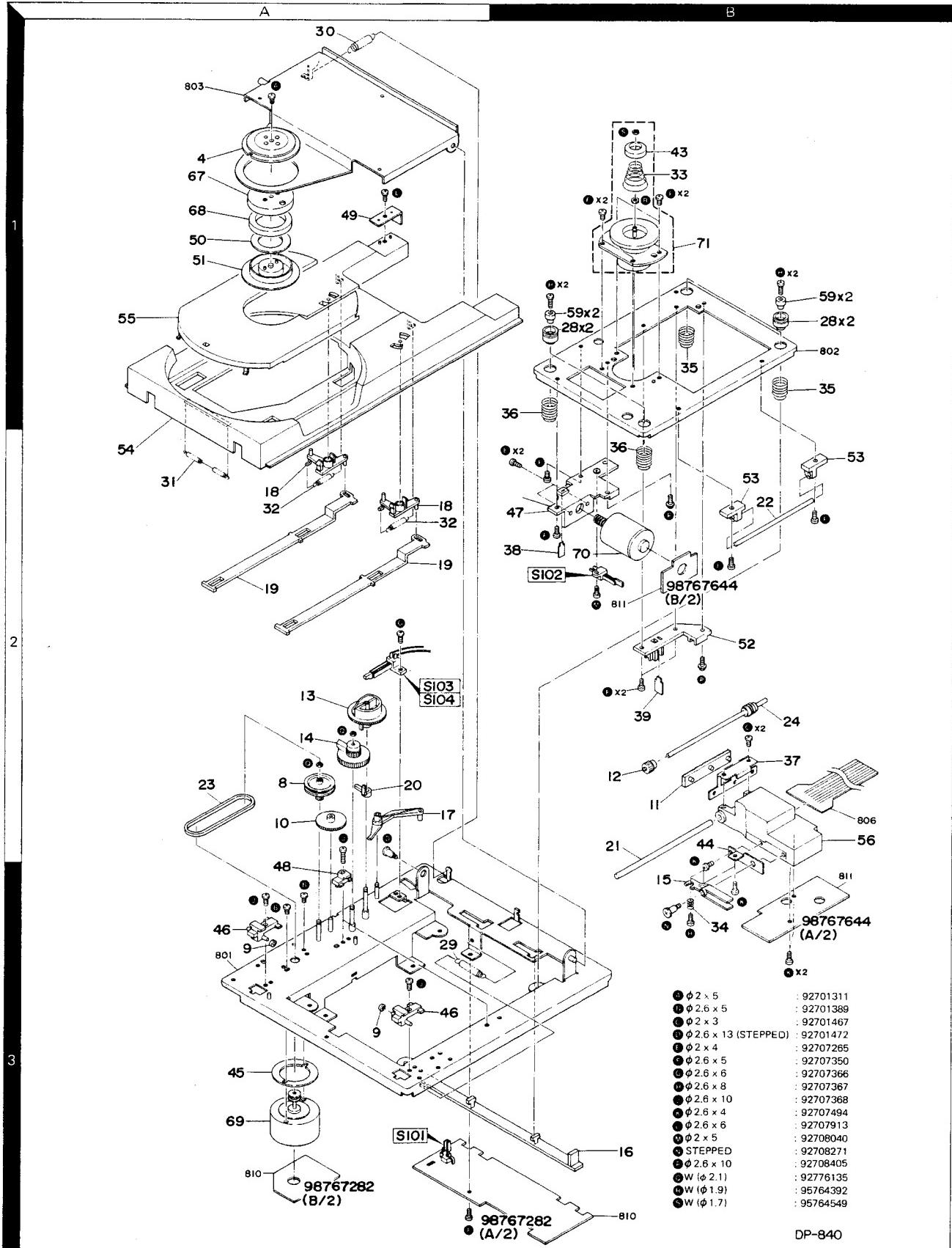
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

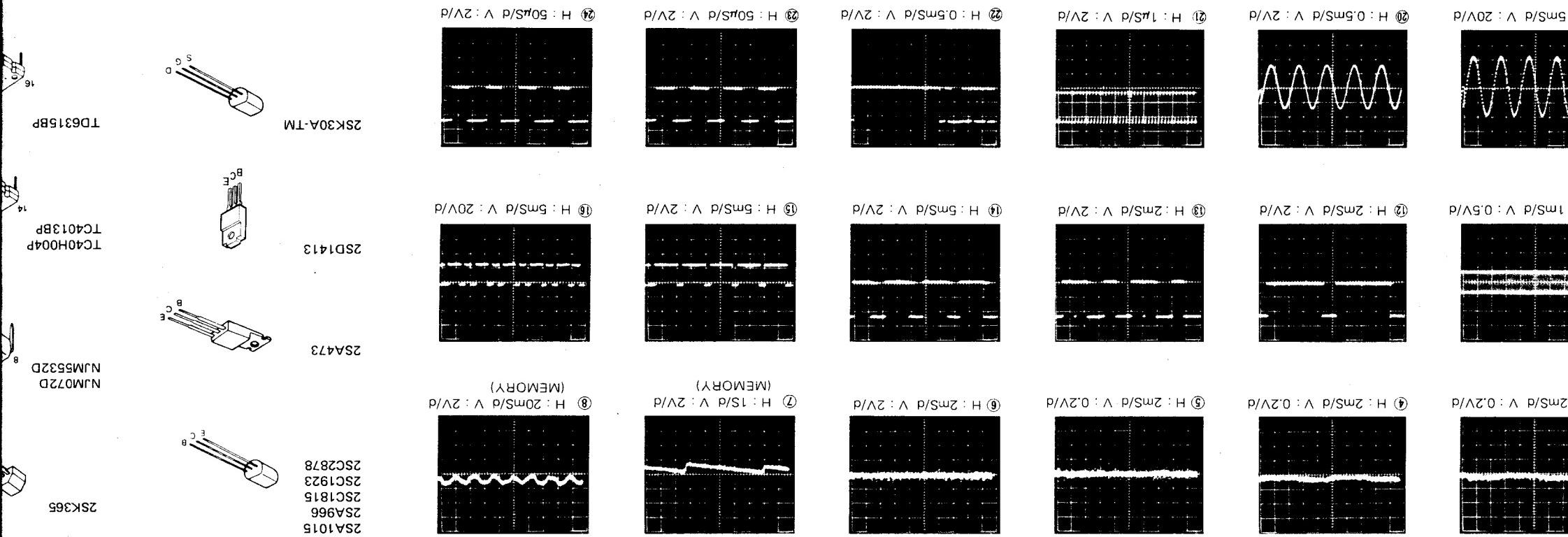


DP-840

EXPLODED VIEW (MECHANISM)

EXPLORATION

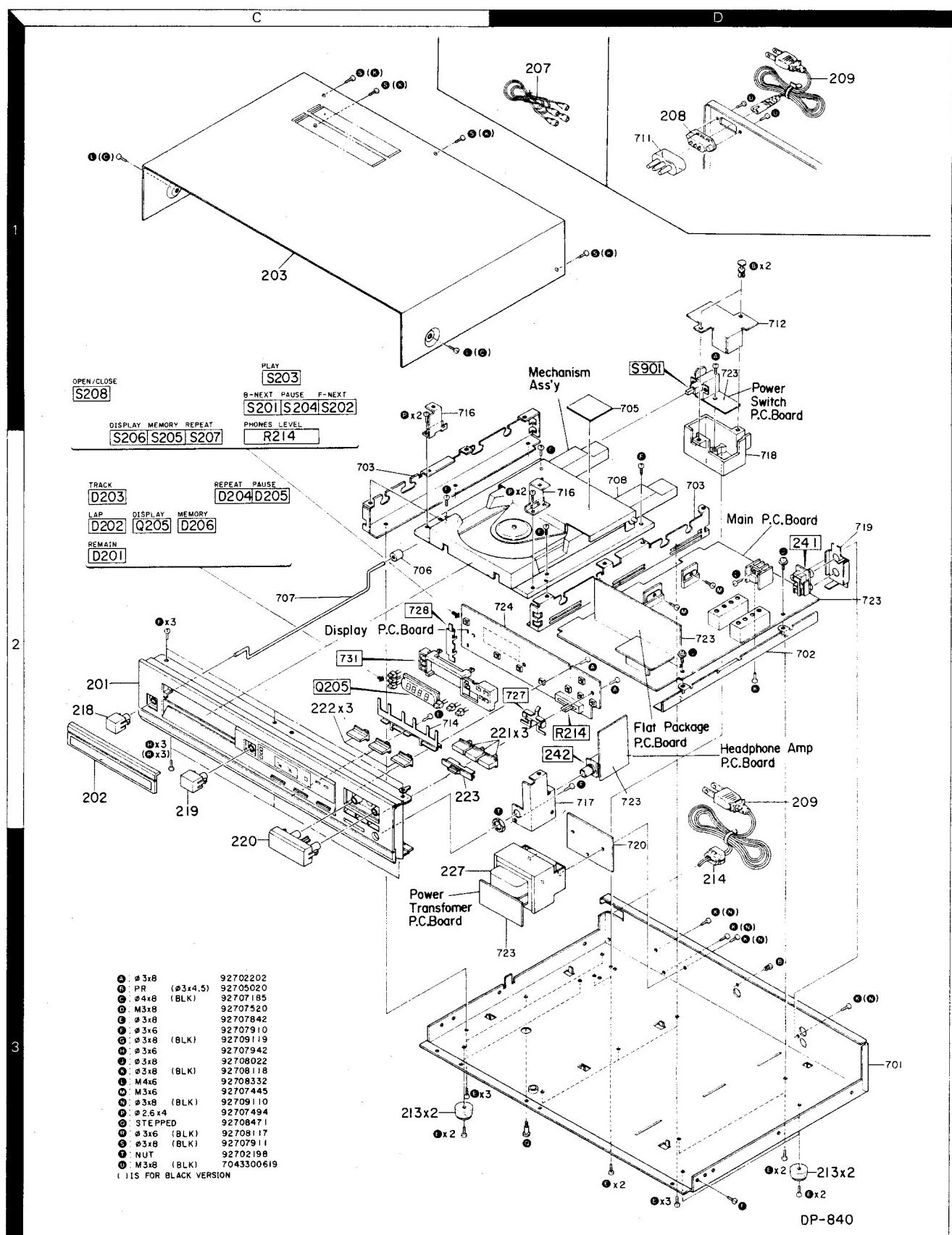




COMPACT DISC PLAYER

DP-840 DP-840

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

PARTS

Ref. No.	Address	New Parts	Parts No.
参照番号	位置	新	部品番号
DP-840			
201	2C	*	90017278
202	2C	*	90017276
203	1C	*	90823118
-		*	92904479
-		*	92904481
-		*	92957597
207	1D		92164775
208	1D		92169037
209	2D		92176645
209	1D		92176680
-		*	92922399
-		*	92936207
-		*	92936208
-		*	92941302
-		*	92941312
-		*	92941519
213	3C, 3D		92874033
214	3D	*	95844322
218	2C	*	90872130
219	2C	*	90872131
220	2C	*	90872132
221	2D	*	90872133
222	2C	*	90872134
223	2C	*	90872135
227	3C	*	92224477
227	3C	*	92224481
A	1D, 2D		92702202
B	1D, 3D		92705020
D	2D		92707520
E	3C, 3D		92707842
F	2C, 2D		92707910
H	2C		92707942
J	2D	*	92708022
L	1C	*	92708332
M	2D	*	92707445
P	1C, 2D	*	92707494
Q	3D	*	92708471
S	1C, 1D		92707911
T	2D		92702198
U	1D		7043300619
DP-840			
201	2C	*	90017273
201	2C	*	90017273
202	2C	*	90017276
203	1C	*	90823117
-		*	92904479
-		*	92904479
-		*	92904480
-		*	92904481
-		*	92904482

F: Scandinavia & Europe H: Audio Club K: USA

S: South Africa

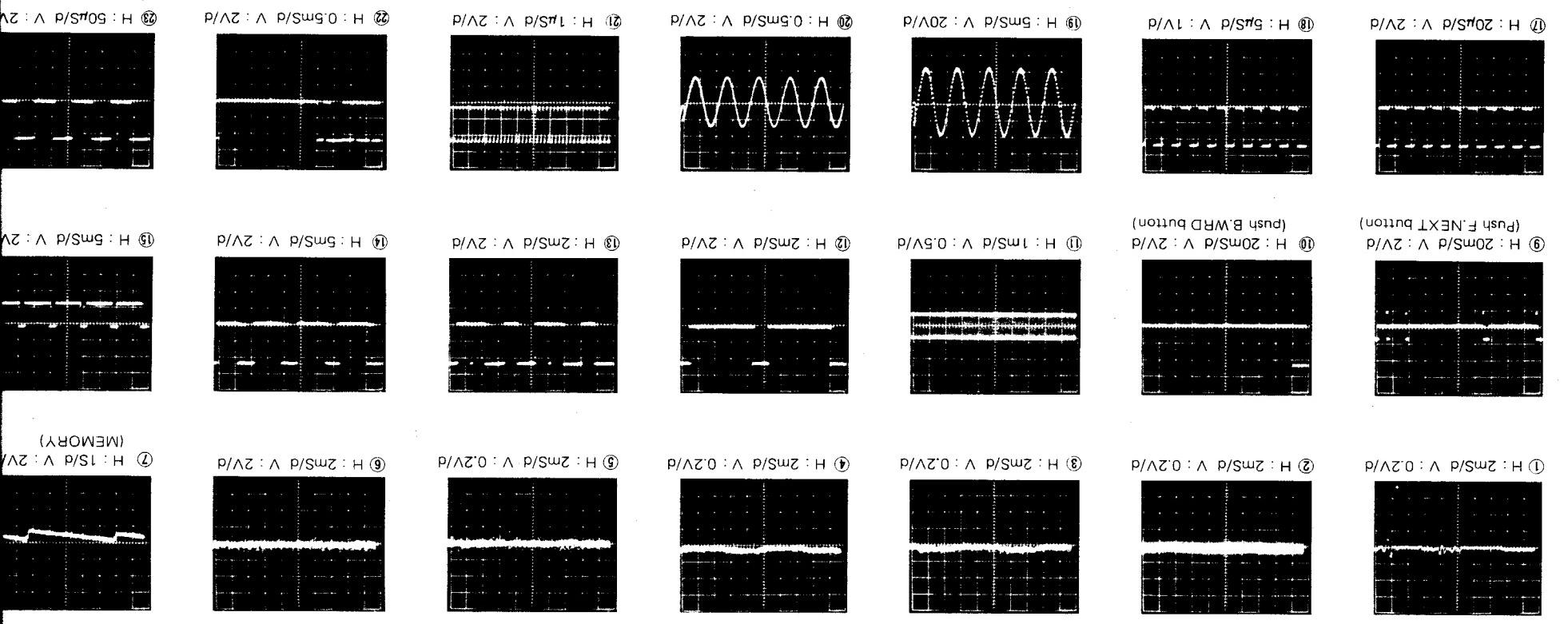
T: England

U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia

M: Other Areas



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DP-840

PARTS LIST

* New Parts
Parts without Parts No. are not supplied
Les articles non mentionnés dans le Pa
Telle ohne Parts No. werden nicht geliefert

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
參照番号	位 置	新	部品番号	部品名 / 規格	仕	向
DP-840 (Silver)						
201	2C	*	90017278	PANEL ASSY		KM
202	2C	*	90017276	PANEL ASSY (TRAY)		
203	1C	*	90823118	METALLIC CABINET		
-		*	92904479	INSTRUCTION MANUAL(ENGLISH)	K	
-		*	92904481	INSTRUCTION MANUAL(FRENCH)	M	
-			92957597	WARRANTY CARD	K	
207	1D		92164775	AUDIO CORD		
208	1D		92169037	AC INLET (3P)	M	
209	2D		92176645	AC POWER CORD	K	
209	1D		92176680	AC POWER CORD (INLET)	M	
-		*	92922399	ITEM CARTON BOX		
-		*	92936207	POLYSTYRENE FOAMED FIXTURE		
-		*	92936208	POLYSTYRENE FOAMED FIXTURE		
-			92941302	PROTECTION BAG		
-			92941312	PROTECTION BAG		
-		*	92941519	PROTECTION BAG		
213	3C, 3D		92874033	FOOT		
214	3D	*	95844322	POWER CORD BUSHING	K	
218	2C	*	90872130	KNOB (BUTTON) POWER		
219	2C	*	90872131	KNOB (BUTTON) OPEN/CLOSE		
220	2C	*	90872132	KNOB (BUTTON) PLAY		
221	2D	*	90872133	KNOB (BUTTON) PAUSE, B/F-NEXT		
222	2C	*	90872134	KNOB (BUTTON) DISP, MEM, REPEAT		
223	2C	*	90872135	KNOB (SLIDE) PHONES LEVEL		
227	3C	*	92224477	POWER TRANSFORMER		
227	3C	*	92224481	POWER TRANSFORMER	K	M
A	1D, 2D		92702202	SCREW (Ø3X8) POWER PCB		
B	1D, 3D		92705020	PUSH RIVET (Ø3X4.5) POWER BOX		
D	2D		92707520	SCREW (M3X8) Ø902		
E	3C, 3D		92707842	SCREW (Ø3X8) BOTTOM PLATE		
F	2C, 2D		92707910	SCREW (Ø3X6) PANEL BOTTOM		
H	2C		92707942	SCREW (Ø3X6) PANEL TOP		
J	2D	*	92708022	SCREW (Ø3X8) MAIN PCB		
L	1C	*	92708332	SCREW (M4X6) METALLIC CABINET		
M	2D		92707445	SCREW (M3X6) Ø704, Ø719		
P	1C, 2D	*	92707494	SCREW (Ø2.6X4) MECHANISM ASSY		
Q	3D	*	92708471	STEPPED SCREW (FOR TRANSPORT)		
S	1C, 1D		92707911	SCREW (Ø3X8) METALLIC CABINET		
T	2D		92702198	NUT HEADPHONE JACK		

SCREW (1)

DP-840 (Black)						
201	2C	*	90017273	PANEL ASSY		KPUM
201	2C	*	90017273	PANEL ASSY		UEX
202	2C	*	90017276	PANEL ASSY (TRAY)		
203	1C	*	90823117	METALLIC CABINET		
-		*	92904479	INSTRUCTION MANUAL (ENGLISH)	KPUM	
-		*	92904479	INSTRUCTION MANUAL (ENGLISH)	UEX	
-		*	92904480	INSTRUCTION MANUAL (ENGLISH)	T	
-		*	92904481	INSTRUCTION MANUAL (FRENCH)	PM	
-		*	92904482	INSTRUCTION MANUAL (SPANISH)	M	

E: Scandinavia & Europe H: Audio Club K: USA P: Canada
S: South Africa T: England U: PX(Far East, Hawaii)

 indicates safety critical components

PARTS LIST

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Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
-			92957597 92957599 92957600 92957601 92957605	WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD SERVICE STATIONS LIST	K <u>U</u> <u>E</u> X <u>U</u> <u>E</u>	
-			92957606 92957607 92957732	CAUTION CARD CAUTION CARD WARRANTY CARD	U <u>U</u> P	
△ 207	1D	*	92164775	AUDIO CORD		
△ 208	1D		92169037	AC INLET (3P)	UMUE	
△ 209	2D		92176588	AC POWER CORD	X	
△ 209	2D	*	92176628	AC POWER CORD	T	
△ 209	2D		92176645	AC POWER CORD	KP	
△ 209	1D		92176680	AC POWER CORD (INLET)	UMUE	
-		*	92922400	ITEM CARTON BOX	KPUM	
-		*	92922400	ITEM CARTON BOX	<u>U</u> EXT	
-		*	92922401	ITEM CARTON BOX	T	
-		*	92936207	POLYSTYRENE FOAMED FIXTURE		
-		*	92936208	POLYSTYRENE FOAMED FIXTURE		
-			92941302	PROTECTION BAG		
-			92941312	PROTECTION BAG		
-		*	92941519	PROTECTION BAG		
△ 213	3C, 3D		92874033	FOOT		
△ 214	3D	*	95844322	POWER CORD BUSHING	KPX	
218	2C	*	90872116	KNOB (BUTTON)	POWER	
219	2C	*	90872122	KNOB (BUTTON)	OPEN/CLOSE	
220	2C	*	90872123	KNOB (BUTTON)	PLAY	T
220	2C	*	90872139	KNOB (BUTTON)	PLAY	KPUM
220	2C	*	90872139	KNOB (BUTTON)	PLAY	<u>U</u> EX
221	2D	*	90872124	KNOB (BUTTON)	PAUSE, B/F-NEXT	
222	2C	*	90872125	KNOB (BUTTON)	DISP, MEM, REPEAT	
223	2C	*	90872126	KNOB (SLIDE)	PHONES LEVEL	
△ 227	3C	*	92224477	POWER TRANSFORMER	KP	
△ 227	3C	*	92224479	POWER TRANSFORMER	T	
△ 227	3C	*	92224480	POWER TRANSFORMER	X	
△ 227	3C	*	92224481	POWER TRANSFORMER	<u>U</u> EM	
A	1D, 2D		92702202	SCREW (Ø3X8) POWER, DISP PCB		
B	1D, 3D		92705020	PUSH RIVET (Ø3X4.5) POWER BX		
C	1C		92707185	SCREW (Ø4X8) BLK (METAL CABINET)		
D	2D		92707520	SCREW (M3X8) Q902		
E	3C, 3D		92707842	SCREW (Ø3X8) BOTTOM PLATE		
F	2C, 2D		92707910	SCREW (Ø3X6) PANEL TOP		
J	2D	*	92708022	SCREW (Ø3X8) MAIN PCB		
K	2D, 3D		92708118	SCREW (Ø3X8) METALLIC CABINET		
M	2D		92707445	SCREW (M3X6) Q704, Q719		
N	3D	*	92709110	SCREW (Ø3X8) BLK (REAR PANEL)		
P	1C, 2D	*	92707494	SCREW (Ø2.6X4) MECHANISM ASSY		
Q	3D	*	92708471	STEPPED SCREW (FOR TRANSPORT)		
R	2C		92708117	SCREW (Ø3X6) BLK (PANEL BOTTOM)		
T	2D		92702198	NUT HEADPHONE JACK		
U	1D		7043300619	SCREW (M3X6) AC INLET		

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Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格				Desti- nation 仕 向	Re- marks 備考
DISPLAY (98767294)									
C201,202 C203,204			CC45SL1H100D 92488100	CERAMIC ELECTRO	10PF 10UF	D 50WV			
R202		*	92540776	MULTI-COMP	5.6KX4	K			
R203		*	92540777	MULTI-COMP	47KX3	K			
R204		*	92540778	MULTI-COMP	47KX7	K			
R205		*	92540794	MULTI-COMP	56KX5	K			
R206		*	92540780	MULTI-COMP	56KX7	K			
R214	2D	*	92657351	POTENTIOMETER(50K)	VOLUME				
S201-208	1C,2C		92196228	PUSH SWITCH	(OPERATION KEY)				
D201-206 D208-215	2C	*	TLS208 1SS176 TC5066BP TC5067BP 2SC1815NEW(GR)	LED DIODE IC(BUFFER X7) IC(INV BUFFER X7) TRANSISTOR	(REMAIN,LAP,TRACK ETC.)				
Q201 Q202 Q203									
Q204 Q205	2C	*	TA75557S 92104629	IC(NP AMP X2) FLUORESCENT INDICATOR TUBE					
MAIN (98767478)									
C301,302 C303,304			92360134	CERAMIC	22PF	J			
C401			CK45F1H223Z	CERAMIC	0.022UF	Z			
C402,403 C405,406			CC45SL1H101K CK45F1H223Z CK45B1H102K	CERAMIC CERAMIC CERAMIC	100PF 0.022UF 1000PF	K Z K			
C407			CQ92M1H473K	MYLAR	0.047UF	K			
C408			CC45SL1H390K	CERAMIC	39PF	K			
C409			CC45SL1H151F	CERAMIC	150PF	F			
C410			CC45SL1H680K	CERAMIC	68PF	K			
Z301		*	92153355	CRYSTAL RESONATOR					
R403			92570693	RN	270	F	1/4W		
R404			92570694	RN	330	F	1/4W		
Q301 Q302 Q303		*	TC9178AF TC5516AF TC9179F	IC(SYNC SEPA, EFM SIGNAL MPX) IC(16K RAM) IC(ERROR DETECTOR/CORRECTOR)					
Q401 Q402			TD6315BP 2SC1923(0)	IC(DATA SEPA CLK PULSE GEN PLL) TRANSISTOR					
C501 C502			CK45F1H103Z 92483101	CERAMIC ELECTRO	0.010UF 100UF	Z 10WV			
C503,504 C505-507			CK45F1H103Z CC45SL1H560K	CERAMIC	0.010UF	Z			
C508			CC45SL1H820K	CERAMIC	56PF	K			
C509			CK45F1H223Z	CERAMIC	0.022UF	Z			
C510,511 C512,513			92483471 92321058	ELECTRO	470UF	10WV			
C514,515 C516,517			92321084 92483470	POLYPR	0.0012UF	J			
C518,519 C520,521			92321084 92321058	POLYPR	180PF	J			
C522,523 C524,525			92321062 92486220	POLYPR	0.0012UF	J			
C526			92483221	ELECTRO	22UF	25WV			
				ELECTRO	220UF	10WV			

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Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規 格			Desti- nation 仕 向	Re- marks 備考
C527			92483101	ELECTRO	100UF	10WV		
C528			92488109	ELECTRO	1UF	50WV		
C529,530			92321061	POLYPRO	0.0022UF	J		
C531,532			92486220	ELECTRO	22UF	25WV		
C533,534			92483470	ELECTRO	47UF	10WV		
C601			92483470	ELECTRO	47UF	10WV		
C602			92488338	ELECTRO	0.33UF	50WV		
C603,604			CK45F1H223Z	CERAMIC	0.022UF	Z		
C605			92483471	ELECTRO	470UF	10WV		
C703			92485100	ELECTRO	10UF	16WV		
C704			CK45B1H103K	CERAMIC	0.010UF	K		
C705			92360484	CERAMIC	0.047UF	Z		
C706,707			CK45F1H223Z	CERAMIC	0.022UF	Z		
C710-712			CK45B1H102K	CERAMIC	1000PF	K		
C713			92488109	ELECTRO	1UF	50WV		
C714			CD92M1H273J	MYLAR	0.027UF	J		
C715			CE04BP1H228M	NP-ELEC	0.22UF	50WV		
C716			CQ92M1H333J	MYLAR	0.033UF	J		
C717			92360484	CERAMIC	0.047UF	Z		
C718			92485470	ELECTRO	47UF	16WV		
C719			CK45F1H223Z	CERAMIC	0.022UF	Z		
C720			92488109	ELECTRO	1UF	50WV		
C721			92483101	ELECTRO	100UF	10WV		
C722			CC45SL1H150K	CERAMIC	15PF	K		
C723			CD92M1H182J	MYLAR	1800PF	J		
C724			92485100	ELECTRO	10UF	16WV		
C725			CK45B1H471K	CERAMIC	470PF	K		
C726			CK45F1H223Z	CERAMIC	0.022UF	Z		
C727			92488479	ELECTRO	4.7UF	50WV		
C728,729			CK45F1H223Z	CERAMIC	0.022UF	Z		
C730			CK45B1H471K	CERAMIC	470PF	K		
C731			CK45B1H392K	CERAMIC	3900PF	K		
C732			CK45B1H103K	CERAMIC	0.010UF	K		
C733			CK45F1H223Z	CERAMIC	0.022UF	Z		
C734			92360553	CERAMIC	0.056UF	K		
C735			CK45F1H103Z	CERAMIC	0.010UF	Z		
C736			CD92M1H104J	MYLAR	0.10UF	J		
C737			CK45F1H223Z	CERAMIC	0.022UF	Z		
C738,739			92486220	ELECTRO	22UF	25WV		
C740			CE04BP1H109M	NP-ELEC	1.0UF	50WV		
△ C901			92340150	CERAMIC	4700PF	P		
△ C901			92340205	CERAMIC	4700PF	M		
C902,903			CK45F1H103Z	CERAMIC	0.010UF	Z		
C904			CK45F1H103Z	CERAMIC	0.010UF	Z		
C905			CK45F1H103Z	CERAMIC	0.010UF	Z		
C906			92485222	ELECTRO	2200UF	16WV		
C907			92485102	ELECTRO	1000UF	16WV		
C908,909			92486222	ELECTRO	2200UF	25WV		
C910			92483221	ELECTRO	220UF	10WV		
C911-918			92483101	ELECTRO	100UF	10WV		
C919			92483101	ELECTRO	100UF	10WV		
C920			92488101	ELECTRO	100UF	50WV		
C921			92486101	ELECTRO	100UF	25WV		
241	2D		92198012	PHONE JACK (2P) OUTPUT				

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242	2D		92198062	PHONE JACK (3P) HEADPHONE		
L401			92245445	COIL		
L501		*	92295127	COIL		
Z501,502		*	92137770	FILTER		
R507,508		*	92658826	TRIM POT. (10K) OUTPUT OFFSET		
R601,602		*	92540781	MULTI-COMP 5.6KX5		
R607			RD14BB2H3R3J	RD 3.3 J 1/2W		
R705		*	92658826	TRIMMING POT. (10K) FOCUS GAIN		
R726		*	92658827	TRIMMING POT. (20K) TRACK ERROR		
R727		*	92658826	TRIMMING POT. (10K) TRACK GAIN		
R820		*	92570432	RS 10 J 1W		
R821		*	92500333	JUMPER R 0 ΩHM		
R901-904			92500201	FUSE RESIST 1 J 1/2W		
△ S901	1D		92196362	PUSH SWITCH (POWER)		
D401			1SV147	DIODE		
D501-505			1SS176	DIODE		
D601-607			1SS176	DIODE		
D701-708			1SS176	DIODE		
D709			05Z8.2Y	ZENER DIODE		
D710		*	05Z8.2Z	ZENER DIODE		
D711			1SS176	DIODE		
D901,902			1B4B41	DIODE		
D903			05Z6.2Y	ZENER DIODE		
D904			05Z5.6Y	ZENER DIODE		
D905,906		*	05Z9.1Y	ZENER DIODE		
D907		*	05Z7.5Y	ZENER DIODE		
D910			05Z24(Y)	ZENER DIODE		
D911,912			1SS176	DIODE		
Q501			TD6705AP	IC(16-BIT D/A CONVERTER)		
Q502			TC4053BP	IC(3-INPUT 2CH MPX/DE-MPX)		
Q502			UPD4053BC	IC(3-INPUT 2CH MPX/DE-MPX)		
Q503		*	NJM072D(E)	IC(OP AMP X2)		
Q504			NJM5532D	IC(OP AMP X2)		
Q505,506			2SK30A-TM(GR)	FET		
Q507,508			2SC2878(B)	TRANSISTOR		
Q509			2SA1015(GR)	TRANSISTOR		
Q510		*	2SC1815NEW(GR)	TRANSISTOR		
Q601			TMP4740N-5942	IC(MICROPROCESSOR)		
Q602			TA7354P	IC(MOTOR DRIVER)		
Q603			2SC1815N(GR)	TRANSISTOR		
Q604			2SA1015(GR)	TRANSISTOR		
Q605		*	PST520D	IC(LOW POWER RESET)		
Q702,703			2SC2878(B)	TRANSISTOR		
Q704			TA7256P	IC(OP AMP X2)		
Q705			TA7545BS	IC(OP AMP X2)		
Q706			2SC2878(B)	TRANSISTOR		
Q707			2SK30A-TM(GR)	FET		
Q708			2SA1015(GR)	TRANSISTOR		
Q710			2SC2878(B)	TRANSISTOR		
Q711-713			TC40H004P	IC(INV BUFFER/CONVERTER X6)		
Q714			TA7545BS	IC(OP AMP X2)		
Q715			TC4013BP	IC(D FLIP-FLOP X2)		
Q716			2SA1015(GR)	TRANSISTOR		

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Q717			2SC1815N(GR)	TRANSISTOR		
Q718			2SC1815NEW(GR)	TRANSISTOR		
Q719			TA7256P	IC(OP AMP X2)		
Q720			TA75458S	IC(OP AMP X2)		
Q721-723			2SC2878(B)	TRANSISTOR		
Q724		*	2SK30A-TM(GR)	FET		
Q725		*	2SK365(BL)	FET		
Q726		*	2SA1015(GR)	TRANSISTOR		
Q901		*	2SK365(BL)	FET		
Q902		*	2SD1413	TRANSISTOR		
Q903		*	2SA473(Y)	TRANSISTOR		
Q904,905		*	2SK365(BL)	FET		
Q906		*	2SD1413	TRANSISTOR		
Q907		*	2SA473(Y)	TRANSISTOR		
Q908		*	2SD1413	TRANSISTOR		
MECHANISM PCB (98767282)						
C101 ,102			92440444	ELECTRO	10UF	16WV
C103			CK45F1H103Z	CERAMIC	0.010UF	Z
C106			92483101	ELECTRO	1000UF	10WV
C121			CK45F1H223Z	CERAMIC	0.022UF	Z
C122 ,123			92360331	CERAMIC	0.047UF	M
C701 ,702			CK45B1H471K	CERAMIC	470PF	K
C708 ,709			CK45B1H102K	CERAMIC	1000PF	K
R112		*	92658761	TRIMMING POT. (10K)	LASER POWER	
R124		*	92658827	TRIMMING POT. (20K)	LASER POWER	
D101 ,102		*	ISS176	DIODE		
D104		*	05Z3.3(Y)	DIODE		
Q101		*	2SA966(Y)	TRANSISTOR		
Q102 -104		*	2SC1815NEW(GR)	TRANSISTOR		
Q121		*	TA7779P	IC(HEAD AMP FOR 3-BEAM PICK-UP)		
Q701			TA75458S	IC(OP AMP X2)		
MECHANISM ASS'Y (92900237)						
4	1A	*	90754201	CAP	(CLAMPER)	
8	2A	*	90727083	PULLEY	(DRIVE GEAR A)	
9	3A	*	90727119	ROLLER	(A)	
10	2A	*	90727125	GEAR	(LOADING B)	
11	2B	*	90727127	GEAR	(RACK)	
12	2B	*	90727130	GEAR	(BIVEL)	
13	2A	*	90727134	GEAR	(CAM)	
14	2A	*	90727135	GEAR	(DRIVE)	
15	3B	*	90754207	LEVER	(GUIDE)	
16	3B	*	90754216	SLIDER	(LIFT)	
17	2A	*	90754217	LEVER	(LIFT)	
18	2A	*	90754218	LEVER	(TRAY)	
19	2A	*	90754220	SLIDER	(TRAY)	
20	2A	*	90758038	COPPLING	(CAM)	
21	3B	*	90764197	SHAFT A	(GUIDE A)	
22	2B	*	90764198	SHAFT B	(GUIDE B)	
23	2A	*	95759027	BELT	(DRIVE)	
24	2B	*	95791905	SHAFT ASSY	(DRIVE)	
28	1B	*	95761530	CUSHION		
29	3A	*	95776669	SPRING	(LIFT SLIDER)	

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30	1A	*	95776824	SPRING (CLAMP LIFTER)		
31	2A	*	95776854	SPRING (TRAY)		
32	2A	*	95776855	SPRING (TRAY LEVER)		
33	1B	*	95777270	SPRING (DISK MOTOR)		
34	3B	*	95777425	SPRING (PICK-UP GUIDE LEVER)		
35	1B	*	95777426	SPRING A (MECH CHASSIS/REAR)		
36	1B,2B	*	95777427	SPRING B (MECH CHASSIS/FRONT)		
37	2B	*	95779510	SPRING (RACK)		
38	2B	*	95779511	SPRING (DRIVE MOTOR)		
39	2B	*	95779512	SPRING (DRIVE)		
43	1B	*	90723146	RING (CENTER)		
44	3B	*	90743163	MOUNTING HARDWARE (GUIDE)		
45	3A	*	90748172	SPACER (LOADING MOTOR)		
46	3A	*	90748223	MOUNTING HARDWARE (ROLLER A)		
47	2B	*	90748230	MOUNTING HARDWARE (DRIVE MOTOR)		
48	3A	*	90748246	GUIDE (TRAY)		
49	1A	*	90748247	MOUNTING HARDWARE (STOPPER)		
50	1A	*	90748257	SPACER (MAGNET)		
51	1A	*	90754091	CLAMPER		
52	2B	*	90776142	HOLDER (SHAFT A)		
53	2B	*	90776143	HOLDER (SHAFT B)		
54	2A	*	90778190	TRAY (DISK)		
55	1A	*	90778191	TRAY (SUB)		
56	3B	*	92155211	LASER PICK-UP		
59	1B	*	92708378	SPACER (MECHANISM CUSHION)		
A	1A	*	92701311	SCREW (Ø2X5)		
B	3A	*	92701389	SCREW (Ø2.6X3)		
C	2B	*	92701467	SCREW (Ø2X3)		
D	2A,3A	*	92701472	SCREW (Ø2.6X13)		
E	2B	*	92707265	SCREW (Ø2X4)		
F	1B,2B	*	92707350	SCREW (Ø2.6X5)		
G	2A	*	92707366	SCREW (Ø2.6X6)		
H	1B,3B	*	92707367	SCREW (Ø2.6X8)		
J	3A	*	92707368	SCREW (Ø2.6X10)		
K	3B	*	92707494	SCREW (Ø2.6X4)		
L	1A	*	92707913	SCREW (Ø2.6X6)		
M	2B	*	92708040	SCREW (Ø2X5)		
N	3B	*	92708271	SCREW (MECHANISM HOLDER)		
P	2B	*	92708405	SCREW (Ø2.6X10)		
Q	2A	*	90776135	WASHER (Ø2.1)		
R	1B	*	95764392	WASHER (Ø1.9)		
S	1B	*	95764549	WASHER (Ø1.7)		
S101	3A	*	92196637	LEAF SWITCH (LASER DIODE)		
S102	2B	*	92196597	LEAF SWITCH		
S103,104	2A	*	92196598	LEAF SWITCH (OPEN/CLOSE LIMIT)		
67	1A	*	90748088	YOKE (CLAMPER)		
68	1A	*	90754089	MAGNET		
69	3A	*	95791944	MOTOR ASSY (LOADING)		
70	2B	*	95791945	MOTOR ASSY (DRIVE)		
71	1B	*	95791946	MOTOR ASSY (DISK)		

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SPECIFICATIONS

Number of channels	2 channels
Frequency response	5Hz – 20kHz, + 0.5dB – 0.5dB
Dynamic range	96dB
Total harmonic distortion	0.003% at 1kHz
Channel separation	90dB at 1kHz
Wow & flutter	Unmeasurable limit
Line output level	2.0V
Headphones output level/impedance	25mW/32 ohms
Spindle speed	500~200 rpm (CLV)
Quantization	16 bits linear 1 channel
Sampling Frequency	44.1kHz
Channel modulation code	EFM (eight to fourteen modulation)
Pick up type	Optical pick up
Laser type	Semiconductor laser
Power requirement	120V, 60Hz . . . USA & Canada models, 220V, 50Hz . . . European models, 240V, 50Hz . . . Australia and U.K. models 120V/220~240V, 50/60Hz (Switchable) . . . Other countries
Power consumptions	14W
Dimensions	W 420 mm (16-9/16") H 84 mm (3-7/16") D 309 mm (12-3/16")
Weight	4.8 kg (10.6lb)
Supplied accessories	Connection cables

Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

TRIO-KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD ELECTRONICS
DIVISION OF KENWOOD U.S.A. CORPORATION
1315 E. Watsoncenter Rd., Carson, California 90745, U.S.A.
75 Seaview Drive, Secaucus, New Jersey 07094, U.S.A.

TRIO-KENWOOD CANADA INC.
1070 Jayson Court, Mississauga, Ontario, Canada L4W 2V5

TRIO-KENWOOD ELECTRONICS, N.V.
Leuvensesteenweg 504 B-1930 Zaventem, Belgium

TRIO-KENWOOD ELECTRONICS GmbH
Rembrucker Str. 15, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A.
5, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD (AUSTRALIA) PTY. LTD. (INCORPORATED IN NSW)
4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia

KENWOOD & LEE ELECTRONICS, LTD.
Wang Kee Building, 5th Floor, 34-37, Connaught Road, Central, Hong Kong